

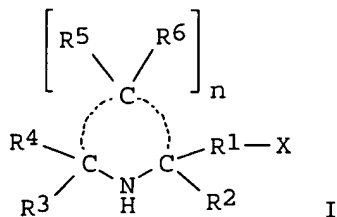
STN 4-14-05

10/672,062

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*2 ver*  
 L1 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:310207 CAPLUS  
 DOCUMENT NUMBER: 140:322996  
 TITLE: Hindered amine-bonded **light-resistant colorants** and compositions therewith  
 INVENTOR(S): Jong, Yon-Kyon; Yu, Sun-Min  
 PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea  
 SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004115812	A2	20040415	JP 2003-338029	20030929
US 2004129178	A1	20040708	US 2003-672062	20030929
PRIORITY APPLN. INFO.:			KR 2002-59138	A 20020928
OTHER SOURCE(S):	MARPAT 140:322996			
GI				



AB Colorants, i.e., pigments or dyes, chemical bonded with piperidine-type hindered amines I [R1 = C1-20 (hetero)alkylene, C6-20 arylene, C6-30 heteroarylene; R2-R4 = H, C1-4 (hetero)alkyl; R5, R6 = H, C1-20 (hetero)alkyl, C6-20 (hetero)aryl; X = halo, OH, amino, carboxyl, etc.; n = 1-5], and their compns. with water and/or organic solvents are claimed. The compns. may further contain dispersants, viscosity modifiers, surfactants, wetting agents, permeation agents, pH modifiers, and/or metal oxides. Thus, C.I. Direct Black 5128 was reacted with 2-(γ-chloropropyl)-2,4,6,6-tetramethylpiperidine to give II, 4.0 g of which was mixed with water 78.0, iso-PrOH 3.0, ethylene glycol 10.0, and glycerin 5.0 g, and filtered to give an ink showing no precipitation after 2-mo storage at 60°.

L1 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:607519 CAPLUS  
 DOCUMENT NUMBER: 139:165986  
 TITLE: Colorant particle dispersions for inks and ink-jet printing method  
 INVENTOR(S): Ishizuka, Takahiro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent

10/672,062

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003221521	A2	20030808	JP 2002-21652	20020130
US 2004024085	A1	20040205	US 2003-352973	20030129
PRIORITY APPLN. INFO.:			JP 2002-21652	A 20020130
			JP 2002-22012	A 20020130
			JP 2002-22493	A 20020130

AB Title dispersions comprise colorant fine particles containing oil-soluble polymers and phthalocyanine colorants with oxidation potential (vs SCE) >1.0 V dispersed in aqueous media. Thus, 1.5 parts iso-Bu methacrylate-Bu acrylate copolymer having mercaptosuccinic acid and 0.5 parts phthalocyanine colorant were dispersed in THF and tert-butanol and neutralized with sodium hydroxide to give 16%-solids colorant particle dispersion with volume average particle diameter 23 nm, 50 parts of which was mixed with diethylene glycol 8, tetraethylene glycol monobutyl ether 2, and glycerin 5, diethanolamine 1 parts, 1 g polyethylene glycol 2-butyloctanoate, and water, and used for ink-jet printing, showing oxidation potential 1.16 V, good printability, water, light, and ozone resistance, and dark heat solidity.

L1 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:129246 CAPLUS

DOCUMENT NUMBER: 136:169122

TITLE: Colorant aqueous emulsions with good dispersibility, their water- and light-resistant jet printing inks, and printing method using them

INVENTOR(S): Ishizuka, Takahiro

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

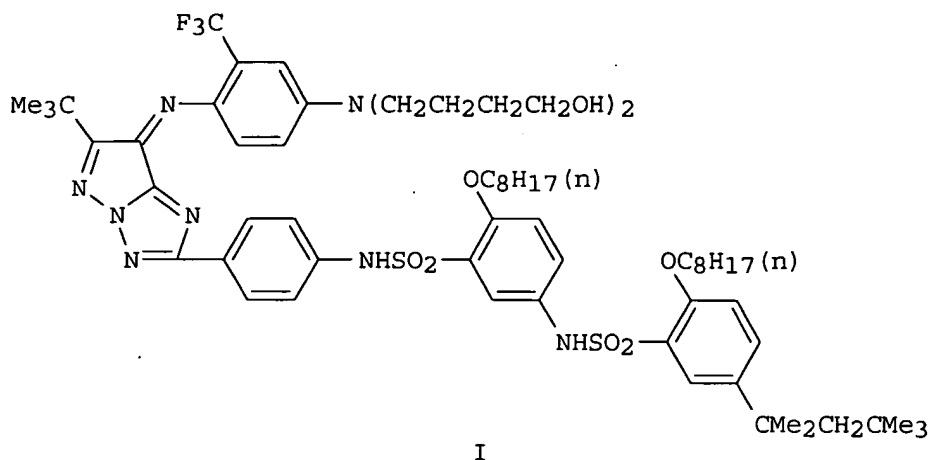
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002053766	A2	20020219	JP 2000-241638	20000809
PRIORITY APPLN. INFO.:			JP 2000-241638	20000809
OTHER SOURCE(S):				
GI				



AB The emulsions comprise oil-soluble dyes and vinyl polymers having functional groups to form colorants by oxidation coupling with aromatic primary amines. Thus, an aqueous emulsion containing Bu methacrylate-2-carboxyethyl acrylate-acrylamide chloropyrazolotriazole derivative copolymer Na salt and an azomethine dye (I) showed particle size 92 nm and stable dispersion.

L1 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:799871 CAPLUS

DOCUMENT NUMBER: 130:96927

TITLE: Lightproofing agents, lightproofing method therewith,  
light-resistant colorants,  
and formation of light-resistant images therefrom

INVENTOR(S): Matsumura, Kazuyuki; Kamei, Masanao; Yamatani, Masaaki

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10330664                  A2        19981215        JP 1997-152808                  19970527

A2 19981215 JP 1997-152808 19970527

PRIORITY APPLN. INFO.: JP 1997-152808 19970527

JP 1997-152808 19970527

AB Title lightproofing agents are S:C bond-containing compds. An ink of a red pigment 3, thiourea 5, glycerol 10, iso-PrOH 10, N-methyl-2-pyrrolidone 10, and water 62 parts was jet-printed on a sheet resulting highly light-resistant prints.

L1 ANSWER 5 OF 6 CAPLUS . COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:449875 CAPLUS

DOCUMENT NUMBER: 127:82916

TITLE: Colored hot melt ink jet vehicle

INVENTOR(S): Evans, Philippa Catherine; Hall, Stephen Anthony;  
Williams, Kevin George

PATENT ASSIGNEE(S) : Coates Brothers Plc, UK

SOURCE: Brit. UK Pat. Appl., 18 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

10/672,062

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2305928	A1	19970423	GB 1995-20470	19951006
WO 9713816	A1	19970417	WO 1996-GB2446	19961007
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG				
AU 9671403	A1	19970430	AU 1996-71403	19961007
EP 853650	A1	19980722	EP 1996-932727	19961007
EP 853650	B1	19990707		

R: DE, FR, GB, IT

PRIORITY APPLN. INFO.:

GB 1995-20470	A	19951006
WO 1996-GB2446	W	19961007

AB A colored material suitable for use in a hot melt ink comprises a oligomeric hot melt ink jet vehicle formed of mols. having a backbone and  $\geq 1$  pendent side-chain dyestuff. The material is preferably obtainable as the reaction product of an aliphatic or aromatic mono- or di-isocyanate and a hydroxyl group functional dye component, and optionally one or more other suitable material including mono- and dihydric alcs., primary and secondary monoamines, functional amides, hydroxyl functional amines and hydroxyl containing components having a terminal unsatd. bond. A red colorant having a softening point 88° was prepared by the urethane reaction of octadecyl isocyanate with Reactint Red X 52 dye.

L1 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

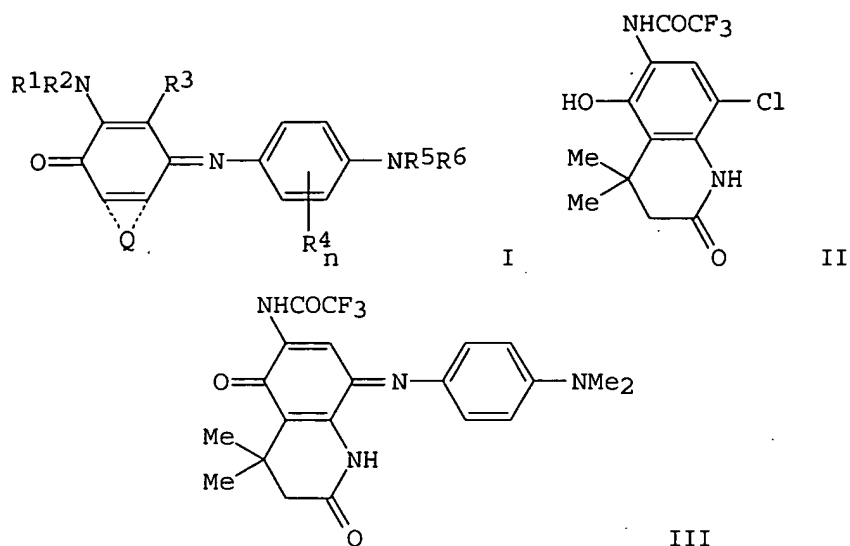
ACCESSION NUMBER: 1989:480113 CAPLUS  
 DOCUMENT NUMBER: 111:80113  
 TITLE: Colorants for sublimation thermal-transfer recording  
 INVENTOR(S): Nakamine, Takeshi; Ono, Michio; Kubodera, Seiichi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01020194	A2	19890124	JP 1987-176625	19870715
JP 06088462	B4	19941109		
US 4983493	A	19910108	US 1988-218789	19880714

PRIORITY APPLN. INFO.:

JP 1987-176625	A	19870715
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AB The title colorants of the structure I ( $Q = \geq 5$ -membered heterocycle containing  $\geq 1$  N;  $R_1$  = acyl, sulfonyl;  $R_2$  = H, C1-6 aliphatic group;  $R_3$  = H, halo, alkoxy, C1-6 aliphatic group;  $R_4$  = halo, alkoxy, C1-6 aliphatic group;  $R_3$  may form a ring with  $R_1$ ,  $R_2$ , or  $R_4$ ;  $R_5$ ,  $R_6$  = H, C1-6 aliphatic group, aromatic group;  $R_5$  and  $R_6$  together may form a ring;  $R_5$  and/or  $R_6$  may form a ring with  $R_4$ ;  $n = 0-4$ ) are prepared. Sublimation-transfer recording sheets containing the colorants gave clear images in printing by using a thermal head. Thus, the amine II and p-dimethylaminoaniline were reacted to give the colorant III ( $\lambda_{\max}$  616 nm). Then an ink containing III was applied on a PET film to give a thermal-transfer recording sheet, which gave clear heat- and light-resistant printed images in a thermal recording process.

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FILE 'CAPLUS' ENTERED AT 16:03:11 ON 14 APR 2005

L1 6 S LIGHT RESISTANT COLORANT?

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